

Inspection Date

INSPECTION REPORT

(Use this form for inspections only)

Compliance No. =>

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Name and Address of Licensee/Registrant	Lic/Reg No.: Site No.: Expiration Date: Inspection Region: Category Code: Use Code: Type of Use:
Address of Inspection	Type of Inspection <input type="checkbox"/> Announced <input type="checkbox"/> Field  <input type="checkbox"/> Unannounced
Inspection Notice to (Name, Title, Address)	Radiation Safety Officer  RSO Phone No.
Copy of Inspection Notice to (Name, Title, Address)	"Inspection Findings" were discussed with:
Telephone No.	Accompanying Inspector(s)
Inspector:	Reviewed by:
Report Date:	Date Reviewed:

Inspection Findings: **Items of Noncompliance**

INSPECTION REPORT SUPPLEMENT

Licensee/Registrant Name	License/Reg No.	Inspection Date
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Access Control

**1. Primary Entry Control Device**

- a. Prevents entry into very high radiation area. - §289.202(u)(2)(A) Yes  No
- b. Entry only after radiation level less than 100 mr/hr. - §289.202(u)(2)(A)(ii) Yes  No
- c. Prevent source operation if it produces 100 mr/hr in area. §289.202(u)(2)(A)(iii) Yes  No
- d. Sources can not be exposed if door open. - 25 TAC §289.258(h)(1) Yes  No
- e. Sources return to shielded position if door opened. - 25 TAC §289.258(h)(1) Yes  No
- f. Same key used for access door as used to move sources. - §289.258(h)(1) Yes  No
- g. Persons not prevented from leaving area. - 25 TAC §289.202(u)(4) & 258(h)(1) Yes  No

**2. Backup Entry Control Devices [25 TAC §289.202(u)(2)(B) & 258(h)]:**

- a. Radiation level reduced to less than 100 mr/hr. Yes  No
- b. Visible & audible alarm makes individual & others aware of failure. Yes  No

**3. Liquid shields [25 TAC §289.202(u)(2)(D)]:**

- Means provided to monitor integrity of shield and signal loss. Yes  No

**4. Radiation Monitor [25 TAC §289.258(h)(3)]:**

- a. Located in maze and detects high radiation levels in radiation room. Yes  No
- b. Integrated with access door locks to prevent entry. Yes  No
- c. Attempted entry during high radiation activates backup alarms. Yes  No

**5. Start-up Protective Devices & Procedures [25 TAC §289.202(u)(2)(F)-(G) & 258(h)(4)-(5)]:**

- a. Visible and audible alarms alert source to be put into operation. Yes  No
- b. Control device installed in area to allow prevention of source operation. Yes  No
- c. Procedures and devices adequate to insure area clear before starting. Yes  No
- d. Door closed within preset time after control activation. 25 TAC §289.258(h)(6) Yes  No

**6. Roof Plugs –[25 TAC §289.258(h)(8)]:**

- a. Interlocks or procedures prevent exposure of sources if plugs not secure. Yes  No

**7. Testing of Entry Control Devices [25 TAC §289.202(u)(2)(I)]:**

- a. Daily unless uninterrupted operation. Yes  No
- b. After interruption. Yes  No
- c. Periodic in accordance with procedures. Yes  No

**8. Entry and Exit Portals [25 TAC §289.202(u)(2)(K)]:**

- a. Devices and procedures prevent inadvertent entry of persons. Yes  No
- b. Exit portals equipped to detect loose radioactive material on conveyor. Yes  No

Comments:

INSPECTION REPORT SUPPLEMENT

Licensee/Registrant Name	License/Reg No.	Inspection Date
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Inspection Findings (continued):

**Fire Protection – [25 TAC §289.258(j)]:**

- a. Heat and smoke detectors activate alarm. Yes  No
- b. Sources returned to shielded position in case of fire. Yes  No
- c. Fire activates extinguishing system. Yes  No

**Control of Source Movement – [25 TAC §289.258(l)]:**

- a. Key required for source movement. Yes  No
- b. Only one key available. Yes  No
- c. Key attached to survey instrument. Yes  No
- d. Key can not be removed unless sources in shielded position. Yes  No
- e. Same key used for access door. Yes  No
- f. Source position indicator located on console. Yes  No
- g. Console has control to return sources. Yes  No
- h. Controls clearly marked. Yes  No

**Irradiator Pools – [25 TAC §289.258(m)]:**

- a. No outlet more than 0.5 meters below normal low water level. Yes  No
- b. Visible water level indicator. Yes  No
- c. Purification system provided. Yes  No
- d. Physical barrier provided around pool. Yes  No
- e. Less than 2 mr/hr on handling areas of tools. Yes  No

**Source Rack Protection – [25 TAC §289.258(n)]:**

- a. Carrier or guides prevent product from touching rack. Yes  No

**Power Failure – [25 TAC §289.258(o)]:**

- a. Sources return to shielded position after 10 seconds. Yes  No
- b. Access door remains locked. Yes  No
- c. Survey instrument required for entry. Yes  No

**Inspection and Maintenance – [25 TAC §289.258(w)] - Includes following:**

- |   |  |
|---|--|
| Access Control System <input type="checkbox"/>                          | Source Position Indicator <input type="checkbox"/>       |
| Radiation Monitor for Pool Water Contamination <input type="checkbox"/> | Over-pool Radiation Monitor <input type="checkbox"/>     |
| Product Exit Monitor <input type="checkbox"/>                           | Emergency Source Return Control <input type="checkbox"/> |
| Leak Tightness of Water System <input type="checkbox"/>                 | Heat & Smoke Detectors <input type="checkbox"/>          |
| Pool Water Replacement <input type="checkbox"/>                         | Water Level Indicators <input type="checkbox"/>          |
| Intrusion Alarm <input type="checkbox"/>                                | Wear of Mechanisms and cables <input type="checkbox"/>   |
| Condition of Product barrier <input type="checkbox"/>                   | Pool Leakage <input type="checkbox"/>                    |
| Electrical Wiring <input type="checkbox"/>                              | Pool Conductivity <input type="checkbox"/>               |

**Water Purity – [25 TAC §289.258(x)]:**

- a. Weekly check to insure conductivity below 20 microsiemens per cm. Yes  No
- b. Conductivity meter calibrated annually Yes  No

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(2/16/99)

TEXAS DEPARTMENT OF HEALTH  
Bureau of Radiation Control

PROGRAM AND MANAGEMENT REVIEW

Licensee/Registrant Name	License/Reg No.	Inspection Date
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Inspection Findings (continued):

1. Scope of Operations (numbers/types of sources, how/when used, field work)
2. General Information (persons present, where located, contact problems)
3. Radiation Safety Officer & Radiation Safety Committee (who, duties, when meet)  
**, RSO**
4. Document Posting (check, if available or posted)
 

<input type="checkbox"/> Texas Regulations [25 TAC §289.203(b)(1)(A)]	<input type="checkbox"/> Operating Procedures [25 TAC §289.203(b)(1)(C)]
<input type="checkbox"/> RAM License [25 TAC §289.203(b)(1)(B)]	<input type="checkbox"/> Notice of violations [25 TAC §289.203(b)(1)(D)]
Amend #	
<input type="checkbox"/> Registration [25 TAC §289.203(b)(1)(B)]	<input type="checkbox"/> Notice to Employees [25 TAC §289.203(b)(3)]
Posted Properly? Yes <input type="checkbox"/>	(or) Notice of availability Posted? Yes <input type="checkbox"/>
[25 TAC §289.203(b)(4)] No <input type="checkbox"/>	[25 TAC §289.203(b)(2)] No <input type="checkbox"/>
5. Location of Records [25 TAC §289.201(d)] (where, who maintains, availability)
6. Inspection History
 

Date of last inspection \_\_\_\_\_ Number of violations reported \_\_\_\_\_

Have previous violations been properly corrected? Yes  No

List violations that were not corrected & licensee/registrant's explanation for non-correction:

Comments:

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(02/16/99)

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Bureau of Radiation Control

TRAINING AND PERSONNEL MONITORING

Licensee/Registrant Name	License/Reg No.	Inspection Date
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Inspection Findings (continued):

I. Training Program

- A. Initial Training [25 TAC §289.203(c)] (who is trained, who trains, what are subjects)  
**25 TAC §289.258(r)(1)-(2): Operator training: fundamentals, TAC, procedures, case histories, OJT & test.**  
**25 TAC §289.258(r)(6): Unescorted access (Training and test. Test may be oral.)**  
**25 TAC §289.258(r)(7): Individuals who respond to alarms (Training and test. Test may be oral.)**

B. Refresher Training

C. Records, Examinations (type exam, records -describe)

D. Management Audits (who audits, frequency, records)

1. Personnel

**25 TAC §289.258(r)(5): Annual evaluation of operator performance.**

2. Operations

3. Safety Requirement

II. ALARA and RPP [25 TAC §289.202(e)]: Yes  No  If yes, describe program:

III. Incidents (describe any that have occurred) [25 TAC §289.202(ww),(xx),(yy)]

A. Reports to Agency:

B. Reports to employees [25 TAC §289.202(aaa)]

Comments:



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RADIATION SURVEYS

Licensee/Registrant Name	License/Reg No.	Inspection Date
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Inspection Findings (continued):

I. Use Area Surveys [25 TAC §289.202(p)(1), procedures] (Describe instruments used, results, frequency, records and their content - perform inspector survey and record.)

- §289.202(u)(2)(H): Survey upon entry after use to ensure level less than 100 mr/hr. Yes  No
- 25 TAC §289.258(i)(1): Less than 2 mr/hr in occupied areas. Yes  No
- 25 TAC §289.258(u)(1): Survey after loading and at 3 year interval. Yes  No

II. Storage Area Surveys [25 TAC §289.202(p)(1), procedures] (Describe instruments used, results, frequency, records and their content - perform inspector survey and record.)

III. Transport Surveys [25 TAC §289.202(p)(1), procedures] (Describe instruments used, results, frequency, records and their content - perform inspector survey and record.)

IV. Area Wipe Surveys [25 TAC §289.202(p)(1), procedures] (Describe instruments used, results, frequency, records and their content - perform inspector survey and record.)

V. Package Receipt Procedures [25 TAC §289.202(ee)] and Surveys [25 TAC §289.202(nn)] (Describe instruments used, results, frequency, records and their content - perform inspector survey and record)

VI. Instrument Calibration [25 TAC §289.202(p)(2),(3)]

A. Method (or service company) and frequency including analytical instrument.

B. Instruments available:

Make	Model	Serial Number	Range	Calibration Date(s)

Check here if list is continued elsewhere in the report.

- 25 TAC §289.202(o) Survey of unrestricted area performed. Yes  No
- 25 TAC §289.258(u)(3) Annual calibration of survey instrument. Yes  No
- 25 TAC §289.258(u)(4) Survey of liquids and sediments before use. Yes  No
- 25 TAC §289.258(u)(5) Survey of resins before release. Yes  No
- 25 TAC §289.258(z)(1) Use of survey instrument to enter room. Yes  No
- 25 TAC §289.258(z)(1) Check survey instrument with check source. Yes  No

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(02/16/99)

TEXAS DEPARTMENT OF HEALTH  
Bureau of Radiation Control

RADIATION SOURCE CONTROLS

Licensee/Registrant Name	License/Reg No.	Inspection Date
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Inspection Findings (continued)

I. Radiation Source Inventory [lic/reg condition] (Describe method, records, frequency - perform inspector inventory and attach Agency form.)

II. Inspection and Maintenance (license condition – usually six month interval)

III. Radiation Source Receipt/Transfer Records [25 TAC §289.201(d)(1)] (Describe method, records)

IV. Radiation Source Use Records [lic/reg condition] (Describe method, records, address, out of state use - include reciprocity.)

V. Radiation Waste Disposal [25 TAC §289.202(ff)-(kk)] (Describe waste handling procedures, controls, records)

A. Internal procedures, controls, systems, records

B. Waste processor service - waste manifests [25 TAC §289.202(jj)]

C. Exemption of specific wastes [25 TAC §289.202(fff)]

VI. Leak Tests of Sealed, Plated Radioactive Material Sources

A. Procedures and frequency [25 TAC §289.201(g)(1)]

**25 TAC §289.258(v)(2): Leak test within six months before transferring sources to pool.**

**25 TAC §289.258(v)(2): Water checked daily for contamination by sample or monitor of circulation system.**

B. Was interval exceeded? Yes  No

C. Analysis and records [25 TAC §289.201(g)(3)-(4)] (who analyzes, are units appropriate)

D. Leakage found? Yes  No   
Reported? [25 TAC §289.201(g)(6)&(7)] Yes  No  N/A

**25 TAC §289.258(g): Source criteria**

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Bureau of Radiation Control

INSPECTOR FACILITY AND EQUIPMENT INSPECTION

Licensee/Registrant Name	License/Reg No.	Inspection Date
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Inspection Findings (continued):

I. Compare existing storage and use facilities to the drawings and information presented in the application(s).

II. Area Posting and Controls (Describe what/where, posting, security, controls, etc.)

- A. Radiation Areas [25 TAC §289.202(aa)(1)] Yes  No  N/A
- B. High Radiation Areas [25 TAC §289.202(aa)(1)] Yes  No  N/A   
**25 TAC §289.258(h)(7): CHA or GDVHRA as applicable**
- C. Airborne Radioactivity Areas [25 TAC §289.202(aa)(4)] Yes  No  N/A
- D. Storage Areas Yes  No  N/A

III. Container security [25 TAC §289.202(y)] Labeling [25 TAC §289.202(cc)] (Describe security, labels used)

- A. Devices
- B. Storage Containers (watch exemptions)
- C. Transport Containers (determine if used in transport)
- D. Sealed Sources and others:

IV. Emergency Equipment (shields, handling tools, source recovery equipment, showers, medical, decontamination equipment, barricades)

V. Source/container design criteria (do they comply?)

VI. Operations:

A. In-house:

B. Field:

Comments:

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(07/28/98)

TEXAS DEPARTMENT OF HEALTH  
Bureau of Radiation Control

INSPECTOR SURVEY RECORD

Licensee/Registrant Name	License/Reg No.	Inspection Date
Inspection Findings (continued): <p style="text-align: center;"><b>INSPECTOR RADIATION SURVEY RESULTS</b></p> Instrument Mfg.: _____ Serial No.: _____ Calibration Date: _____ Survey of: _____ Surveyor: _____		
Sketch and Survey Results (show sources, location, posting, security, and other controls):		

